

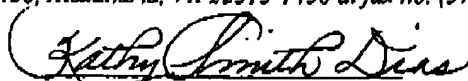
## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Koch *et al.* Attorney Docket No.: 2488.011  
Serial No.: 10/530,100 Group Art Unit: 1646  
Filed: April 1, 2005 Examiner: Not yet assigned  
Title: LONG-ACTING GONADOTROPIN-RELEASING HORMONE ANALOGS  
AND METHODS OF USE THEREOF

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Kathy Smith Dias  
Attorney for Applicants  
Reg. No. 41,707

*Date of Signature: February 7, 2006*

To: Commissioner for Patents  
Office of Initial Patent Examination's Filing Receipt Corrections  
P.O. Box 1450  
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REQUEST FOR CORRECTED FILING RECEIPT

Applicants attach herewith a copy of the Official Filing Receipt relative to the above-identified patent application.


Under the section entitled **Assignment For Published Patent Application**, the name of the Assignee is incomplete. We have circled the error. Please delete "YEDA RESEARCH AND DEVLEOPMENT CO, Rehovot, IL" and replace it with -YEDA RESEARCH AND DEVELOPMENT CO. LTD.-- We have also attached a copy of the Notice of Recordation of Assignment Document that indicates the correct name of the Assignee.

Under the section entitled **Domestic Priority data as claimed by applicant**, the information listed as "This application is a 371 of PCT/IL02/00801\* (\*) Data provided by applicant is not consistent with PTO records." Attached is a copy of the front page of the International Application that indicates the International Application Number and International Filing Date. Applicants would like an explanation as to the inconsistency.

*Applicants: Koch et al.*  
*Serial No.: 10/530,100*  
*Page 2*

If you have any questions, please contact applicants' undersigned attorney.

Respectfully submitted,

  
Kathy Smith Dias  
Attorney for Applicants  
Registration No. 41,707

Dated: February 7, 2006  
Send correspondence to:  
Kathy Smith Dias, Esq.  
HESLIN ROTHENBERG FARLEY & MESITI P.C.  
5 Columbia Circle  
Albany, New York 12203-5160  
Telephone: (518) 452-5600  
Facsimile: (518) 452-5579



## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/530,100	10/13/2005	1646	2465	2488.011	12	74	8

CONFIRMATION NO. 7559

23405  
HESLIN ROTHENBERG FARLEY & MESITI PC  
5 COLUMBIA CIRCLE  
ALBANY, NY 12203

## FILING RECEIPT



\*OC000000017939320\*

Date Mailed: 01/30/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Yitzhak Koch, Rehovot, IL;  
Matityahu Fridkin, Rehovot, ISRAEL;  
Shai Rahimpour, Netanya, ISRAEL;

## Assignment For Published Patent Application

YEDA RESEARCH AND DEVELOPMENT CO, Rehovot, IL

Power of Attorney: The patent practitioners associated with Customer Number 23405.

## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/IL02/00801 \*

(\*)Data provided by applicant is not consistent with PTO records.

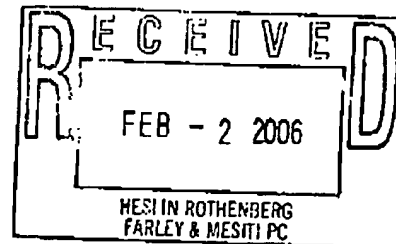
## Foreign Applications

Projected Publication Date: 05/11/2006

Non-Publication Request: No

Early Publication Request: No

\*\* SMALL ENTITY \*\*



**Title**

Long-acting gonadotropin-releasing hormone analogs and methods of use thereof

**Preliminary Class**

514

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**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOVEMBER 18, 2005

PTAS

**\*500061408A\***KATHY SMITH DIAS, ESQ.  
HESLIN ROTHENBERG FARLEY & MESITI P.C.  
5 COLUMBIA CIRCLE  
ALBANY, NY 12203**\*500061408A\*****UNITED STATES PATENT AND TRADEMARK OFFICE  
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RECORDATION DATE: 11/18/2005

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 2488.011

## ASSIGNOR:

KOCH, YITZHAK

DOC DATE: 08/01/2005

## ASSIGNOR:

FRIDKIN, MATITYAHU

DOC DATE: 07/12/2005

## ASSIGNOR:

RAHIMIPOUR, SHAI

DOC DATE: 07/14/2005

## ASSIGNEE:

YEDA RESEARCH AND DEVELOPMENT CO.  
LTD.

WEIZMANN INSTITUTE OF SCIENCE

P.O. BOX 95

REHOVOT, ISRAEL 76100

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.USPTO.gov

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## CORRECTED VERSION

(19) World Intellectual Property  
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International Bureau



(43) International Publication Date  
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number  
**WO 2004/030687 A1**

- (51) International Patent Classification<sup>7</sup>: **A61K 38/09**, C07K 14/47, 14/475
- (21) International Application Number: **PCT/IL2002/000801**
- (22) International Filing Date: **2 October 2002** (02.10.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): **YEDA RESEARCH AND DEVELOPMENT CO. LTD.** [IL/IL]; Weizmann Institute of Science, P.O. Box 95, 76100 Rehovot (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **KOCH, Yitzhak** [IL/IL]; 57 Hanasi Harishon Street, Rehovot 76303 (IL). **FRIDKIN, Matityahu** [IL/IL]; 23 Miller Street, 76284 Rehovot (IL). **RAHIMPOUR, Shal** [IL/IL]; 22 Harav Kook Street, Netanya 42261 (IL).
- (74) Agent: **WEBB, Cynthia**; Webb & Associates, P.O. Box 2189, 76121 Rehovot (IL).
- (81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**
- (84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CL, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**
- Published:  
— with international search report
- (48) Date of publication of this corrected version: **26 August 2004**
- (15) Information about Correction:  
see PCT Gazette No. 35/2004 of 26 August 2004, Section II
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **LONG-ACTING GONADOTROPIN-RELEASING HORMONE ANALOGS AND METHODS OF USE THEREOF**

(57) Abstract: The present invention relates to the design, synthesis and biological evaluation of potent long-acting gonadotropin-releasing hormone (GnRH) analogs including agonists and antagonists comprising a GnRH peptide conjugated to emodic acid or an emodic acid derivative. These long acting analogs bind to GnRH receptors with high affinity and are devoid of any toxicity or antiproliferative effects. The present invention further relates to therapeutic uses of these GnRH analogs as contraceptives, in controlling fertility, and in treating and/or preventing sex-hormone dependent diseases or conditions.

WO 2004/030687 A1